

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/644,289DATE: 06/24/96
TIME: 13:07:31

INPUT SET: S11216.raw

SEQUENCE LISTING

ENTERED

1
2
3 (1) GENERAL INFORMATION:
4 (i) APPLICANT: Kulesz-Martin, Molly F.
5 (ii) TITLE OF INVENTION: p53as PROTEIN AND ANTIBODY THEREFOR
6 (iii) NUMBER OF SEQUENCES: 8
7 (iv) CORRESPONDENCE ADDRESS:
8 (A) ADDRESSEE: Dunn & Associates
9 (B) STREET: P.O. Box 96
10 (C) CITY: Newfane
11 (D) STATE: New York
12 (E) COUNTRY: U.S.A.
13 (F) ZIP: 14108
14 (v) COMPUTER READABLE FORM:
15 (A) MEDIUM TYPE: Diskette - 3.5 inch, 1.44 MB
16 (B) COMPUTER: Victor 300 SX/25
17 (C) OPERATING SYSTEM: MS-DOS Version 5.0
18 (D) SOFTWARE: Wordstar Professional Release 4
19 (vi) CURRENT APPLICATION DATA:
20 (A) APPLICATION NUMBER: US/08/644,289
21 (B) FILING DATE: 10-May-1996
22 (C) CLASSIFICATION: 530
23 (vii) PRIOR APPLICATION DATA:
24 (A) APPLICATION NUMBER: 08/195,952
25 (B) FILING DATE: 11-Feb-1994
26 (C) CLASSIFICATION: 530
27 (viii) PRIOR APPLICATION DATA:
28 (A) APPLICATION NUMBER: 08/100,496
29 (B) FILING DATE: 02-Aug-1993
30 (ix) ATTORNEY/AGENT INFORMATION:
31 (A) NAME: Dunn, Michael L.
32 (B) REGISTRATION NUMBER: 25,330
33 (C) REFERENCE/DOCKET NUMBER: RPP:135D US
34 (x) TELECOMMUNICATION INFORMATION:
35 (A) TELEPHONE: (716)433-1661
36 (B) TELEFAX: (716)433-1665
37
38 (2) INFORMATION FOR SEQ ID NO: 1:
39 (i) SEQUENCE CHARACTERISTICS:
40 (A) LENGTH: 20
41 (B) TYPE: amino acids
42 (C) STRANDEDNESS: unknown
43 (D) TOPOLOGY: unknown
44 (ii) MOLECULE TYPE: peptide
45 (iii) HYPOTHETICAL: no
46 (iv) ANTI-SENSE: no
47 (v) FRAGMENT TYPE: peptide
48 (vi) ORIGINAL SOURCE:
49 (A) ORGANISM: human
50 (B) STRAIN:

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51 (C) INDIVIDUAL ISOLATE:
52 (D) DEVELOPMENTAL STAGE:
53 (E) HAPLOTYPE:
54 (F) TISSUE TYPE:
55 (G) CELL TYPE:
56 (H) CELL LINE:
57 (I) ORGANELLE:
58 (vii) IMMEDIATE SOURCE:
59 (A) LIBRARY: deduced translation from nucleotides
60 in Genbank nucleic acid database accession
61 #54156, Locus HSP53G
62 (B) CLONE:
63 (viii) POSITION IN GENOME:
64 (A) CHROMOSOME/SEGMENT: human p53 gene, intron 10
65 (B) MAP POSITION: 18,503 to 18,562
66 (C) UNITS: nucleotides
67 (ix) FEATURE:
68 (A) NAME/KEY:
69 (B) LOCATION:
70 (C) IDENTIFICATION METHOD:
71 (D) OTHER INFORMATION:
72 (x) PUBLICATION INFORMATION:
73 (A) AUTHORS:
74 (B) TITLE:
75 (C) JOURNAL:
76 (D) VOLUME:
77 (E) ISSUE:
78 (F) PAGES:
79 (G) DATE:
80 (H) DOCUMENT NUMBER:
81 (I) FILING DATE:
82 (J) PUBLICATION DATE:
83 (K) RELEVANT RESIDUES IN SEQ ID NO:
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
85 Ser Leu Arg Pro Phe Lys Ala Leu Val Arg Glu Lys Gly His Arg Pro
86 1 5 10 15
87 Ser His Ser Cys
88 20
89
90 (2) INFORMATION FOR SEQ ID NO: 2:
91 (i) SEQUENCE CHARACTERISTICS:
92 (A) LENGTH: 38
93 (B) TYPE: nucleotides
94 (C) STRANDEDNESS: unknown
95 (D) TOPOLOGY: unknown
96 (ii) MOLECULE TYPE: nucleic acids
97 (iii) HYPOTHETICAL:
98 (iv) ANTI-SENSE:
99 (v) FRAGMENT TYPE:
100 (vi) ORIGINAL SOURCE:

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101 (A) ORGANISM: murine
102 (B) STRAIN:
103 (C) INDIVIDUAL ISOLATE:
104 (D) DEVELOPMENTAL STAGE:
105 (E) HAPLOTYPE:
106 (F) TISSUE TYPE:
107 (G) CELL TYPE:
108 (H) CELL LINE:
109 (I) ORGANELLE: synthesized
110 (vii) IMMEDIATE SOURCE: Genbank Accession #K01700
111 (A) LIBRARY:
112 (B) CLONE:
113 (viii) POSITION IN GENOME:
114 (A) CHROMOSOME/SEGMENT:
115 (B) MAP POSITION: nucleotides 1028-1061 in murine
116 p53 gene
117 (C) UNITS: nucleotides
118 (ix) FEATURE:
119 (A) NAME/KEY:
120 (B) LOCATION:
121 (C) IDENTIFICATION METHOD:
122 (D) OTHER INFORMATION:
123 (x) PUBLICATION INFORMATION:
124 (A) AUTHORS:
125 (B) TITLE:
126 (C) JOURNAL:
127 (D) VOLUME:
128 (E) ISSUE:
129 (F) PAGES:
130 (G) DATE:
131 (H) DOCUMENT NUMBER:
132 (I) FILING DATE:
133 (J) PUBLICATION DATE:
134 (K) RELEVANT RESIDUES IN SEQ ID NO:
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
136 AGTCAGGCCT TAGAGTTAAA GGATGCCCAT GCTACAGA 38
137
138
139 (2) INFORMATION FOR SEQ ID NO: 3:
140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH: 28
142 (B) TYPE: nucleotide
143 (C) STRANDEDNESS: unknown
144 (D) TOPOLOGY: unknown
145 (ii) MOLECULE TYPE: nucleic acids
146 (iii) HYPOTHETICAL:
147 (iv) ANTI-SENSE:
148 (v) FRAGMENT TYPE:
149 (vi) ORIGINAL SOURCE:
150 (A) ORGANISM: murine

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151 (B) STRAIN:
152 (C) INDIVIDUAL ISOLATE:
153 (D) DEVELOPMENTAL STAGE:
154 (E) HAPLOTYPE:
155 (F) TISSUE TYPE:
156 (G) CELL TYPE:
157 (H) CELL LINE:
158 (I) ORGANELLE:
159 (vii) IMMEDIATE SOURCE: synthesized
160 (A) LIBRARY: Genbank Accession #K01700
161 (B) CLONE:
162 (viii) POSITION IN GENOME:
163 (A) CHROMOSOME/SEGMENT:
164 (B) MAP POSITION: -111 to -91 upstream of murine
165 p53 coding region
166 (C) UNITS: nucleotides
167 (ix) FEATURE:
168 (A) NAME/KEY:
169 (B) LOCATION:
170 (C) IDENTIFICATION METHOD:
171 (D) OTHER INFORMATION:
172 (x) PUBLICATION INFORMATION:
173 (A) AUTHORS:
174 (B) TITLE:
175 (C) JOURNAL:
176 (D) VOLUME:
177 (E) ISSUE:
178 (F) PAGES:
179 (G) DATE:
180 (H) DOCUMENT NUMBER:
181 (I) FILING DATE:
182 (J) PUBLICATION DATE:
183 (K) RELEVANT RESIDUES IN SEQ ID NO:
184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
185 AGTCGAATTC ATTGGGACCA TCCTGGCT 28
186
187
188 (2) INFORMATION FOR SEQ ID NO: 4:
189 (i) SEQUENCE CHARACTERISTICS:
190 (A) LENGTH: 30
191 (B) TYPE: nucleotide
192 (C) STRANDEDNESS: unknown
193 (D) TOPOLOGY: unknown
194 (ii) MOLECULE TYPE: nucleic acids
195 (iii) HYPOTHETICAL:
196 (iv) ANTI-SENSE: yes
197 (v) FRAGMENT TYPE:
198 (vi) ORIGINAL SOURCE:
199 (A) ORGANISM: murine
200 (B) STRAIN:

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201 (C) INDIVIDUAL ISOLATE:
202 (D) DEVELOPMENTAL STAGE:
203 (E) HAPLOTYPE:
204 (F) TISSUE TYPE:
205 (G) CELL TYPE:
206 (H) CELL LINE:
207 (I) ORGANELLE:
208 (vii) IMMEDIATE SOURCE: synthesized
209 (A) LIBRARY:
210 (B) CLONE:
211 (viii) POSITION IN GENOME:
212 (A) CHROMOSOME/SEGMENT:
213 (B) MAP POSITION:
214 (C) UNITS:
215 (ix) FEATURE:
216 (A) NAME/KEY:
217 (B) LOCATION: 1071-1100 in murine p53 gene
218 (C) IDENTIFICATION METHOD:
219 (D) OTHER INFORMATION:
220 (x) PUBLICATION INFORMATION:
221 (A) AUTHORS:
222 (B) TITLE:
223 (C) JOURNAL:
224 (D) VOLUME:
225 (E) ISSUE:
226 (F) PAGES:
227 (G) DATE:
228 (H) DOCUMENT NUMBER:
229 (I) FILING DATE:
230 (J) PUBLICATION DATE:
231 (K) RELEVANT RESIDUES IN SEQ ID NO:
232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
233 AGTCGGATCC TGGAGTGAGC CCTGCTGTCT 30
234
235
236 (2) INFORMATION FOR SEQ ID NO: 5:
237 (i) SEQUENCE CHARACTERISTICS:
238 (A) LENGTH: 10
239 (B) TYPE: nucleotides
240 (C) STRANDEDNESS: unknown
241 (D) TOPOLOGY: unknown
242 (ii) MOLECULE TYPE: nucleic acids
243 (iii) HYPOTHETICAL:
244 (iv) ANTI-SENSE:
245 (v) FRAGMENT TYPE:
246 (vi) ORIGINAL SOURCE:
247 (A) ORGANISM: human
248 (B) STRAIN:
249 (C) INDIVIDUAL ISOLATE:
250 (D) DEVELOPMENTAL STAGE:

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251 (E) HAPLOTYPE:
252 (F) TISSUE TYPE:
253 (G) CELL TYPE:
254 (H) CELL LINE:
255 (I) ORGANELLE:
256 (vii) IMMEDIATE SOURCE:
257 (A) LIBRARY:
258 (B) CLONE:
259 (viii) POSITION IN GENOME:
260 (A) CHROMOSOME/SEGMENT:
261 (B) MAP POSITION:
262 (C) UNITS:
263 (ix) FEATURE:
264 (A) NAME/KEY:
265 (B) LOCATION:
266 (C) IDENTIFICATION METHOD:
267 (D) OTHER INFORMATION:
268 (x) PUBLICATION INFORMATION:
269 (A) AUTHORS: El-Deiry, WS, et al.
270 (B) TITLE:
271 (C) JOURNAL: Nature
272 (D) VOLUME: 358
273 (E) ISSUE:
274 (F) PAGES: 83-86
275 (G) DATE: 1992
276 (H) DOCUMENT NUMBER:
277 (I) FILING DATE:
278 (J) PUBLICATION DATE: 1992
279 (K) RELEVANT RESIDUES IN SEQ ID NO:
280 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
281 AGGCATGCCT 10
282
283
284 (2) INFORMATION FOR SEQ ID NO: 6: -P53 DNA binding sequence:
285 (i) SEQUENCE CHARACTERISTICS:
286 (A) LENGTH: 50
287 (B) TYPE: nucleotides
288 (C) STRANDEDNESS: unknown
289 (D) TOPOLOGY: unknown
290 (ii) MOLECULE TYPE: nucleic acids
291 (iii) HYPOTHETICAL:
292 (iv) ANTI-SENSE:
293 (v) FRAGMENT TYPE:
294 (vi) ORIGINAL SOURCE:
295 (A) ORGANISM: human
296 (B) STRAIN:
297 (C) INDIVIDUAL ISOLATE:
298 (D) DEVELOPMENTAL STAGE:
299 (E) HAPLOTYPE:
300 (F) TISSUE TYPE:

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301 (G) CELL TYPE:
302 (H) CELL LINE:
303 (I) ORGANELLE:
304 (vii) IMMEDIATE SOURCE: synthesized
305 (A) LIBRARY:
306 (B) CLONE:
307 (viii) POSITION IN GENOME:
308 (A) CHROMOSOME/SEGMENT:
309 (B) MAP POSITION:
310 (C) UNITS:
311 (ix) FEATURE:
312 (A) NAME/KEY:
313 (B) LOCATION:
314 (C) IDENTIFICATION METHOD:
315 (D) OTHER INFORMATION:
316 (x) PUBLICATION INFORMATION:
317 (A) AUTHORS: Zambetti, G., et al.
318 (B) TITLE:
319 (C) JOURNAL: Genes & Dev.
320 (D) VOLUME: 6
321 (E) ISSUE:
322 (F) PAGES: 1143-1152
323 (G) DATE: 1992
324 (H) DOCUMENT NUMBER:
325 (I) FILING DATE:
326 (J) PUBLICATION DATE: 1992
327 (K) RELEVANT RESIDUES IN SEQ ID NO:
328 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
329 TGGCAAGCCT ATGACATGGC CGGGGCCTGC CTCTCTCTGC CTCTGACCCT 50
330
331 (2) INFORMATION FOR SEQ ID NO: 7: -p53 DNA binding sequence:
332 (i) SEQUENCE CHARACTERISTICS:
333 (A) LENGTH: 30
334 (B) TYPE: nucleotides
335 (C) STRANDEDNESS: unknown
336 (D) TOPOLOGY: unknown
337 (ii) MOLECULE TYPE: nucleic acids
338 (iii) HYPOTHETICAL:
339 (iv) ANTI-SENSE:
340 (v) FRAGMENT TYPE:
341 (vi) ORIGINAL SOURCE:
342 (A) ORGANISM: human
343 (B) STRAIN:
344 (C) INDIVIDUAL ISOLATE:
345 (D) DEVELOPMENTAL STAGE:
346 (E) HAPLOTYPE:
347 (F) TISSUE TYPE:
348 (G) CELL TYPE:
349 (H) CELL LINE:
350 (I) ORGANELLE:

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351 (vii) IMMEDIATE SOURCE: synthesized
352 (A) LIBRARY:
353 (B) CLONE:
354 (viii) POSITION IN GENOME:
355 (A) CHROMOSOME/SEGMENT:
356 (B) MAP POSITION:
357 (C) UNITS:
358 (ix) FEATURE:
359 (A) NAME/KEY:
360 (B) LOCATION:
361 (C) IDENTIFICATION METHOD:
362 (D) OTHER INFORMATION:
363 (x) PUBLICATION INFORMATION:
364 (A) AUTHORS: Foord, O., et al.
365 (B) TITLE:
366 (C) JOURNAL: Mol. Cell. Biol.
367 (D) VOLUME: 13
368 (E) ISSUE:
369 (F) PAGES: 1378-1384
370 (G) DATE: 1993
371 (H) DOCUMENT NUMBER:
372 (I) FILING DATE:
373 (J) PUBLICATION DATE: 1993
374 (K) RELEVANT RESIDUES IN SEQ ID NO:
375 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
376 GACACTGGTC ACACTTGGCT GCTTAGGAAT 30
377
378
379 (2) INFORMATION FOR SEQ ID NO: 8: p53 mutated DNA binding sequence:
380 (i) SEQUENCE CHARACTERISTICS:
381 (A) LENGTH: 10
382 (B) TYPE: nucleotides
383 (C) STRANDEDNESS: unknown
384 (D) TOPOLOGY: unknown
385 (ii) MOLECULE TYPE: nucleic acids
386 (iii) HYPOTHETICAL:
387 (iv) ANTI-SENSE:
388 (v) FRAGMENT TYPE:
389 (vi) ORIGINAL SOURCE:
390 (A) ORGANISM: human
391 (B) STRAIN:
392 (C) INDIVIDUAL ISOLATE:
393 (D) DEVELOPMENTAL STAGE:
394 (E) HAPLOTYPE:
395 (F) TISSUE TYPE:
396 (G) CELL TYPE:
397 (H) CELL LINE:
398 (I) ORGANELLE:
399 (vii) IMMEDIATE SOURCE: synthesized
400 (A) LIBRARY:

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401 (B) CLONE:
402 (viii) POSITION IN GENOME:
403 (A) CHROMOSOME/SEGMENT:
404 (B) MAP POSITION:
405 (C) UNITS:
406 (ix) FEATURE:
407 (A) NAME/KEY:
408 (B) LOCATION:
409 (C) IDENTIFICATION METHOD:
410 (D) OTHER INFORMATION:
411 (x) PUBLICATION INFORMATION:
412 (A) AUTHORS: El-Deiry, W.S. et al.
413 (B) TITLE:
414 (C) JOURNAL: Nature
415 (D) VOLUME: 358
416 (E) ISSUE:
417 (F) PAGES: 83-86
418 (G) DATE: 1992
419 (H) DOCUMENT NUMBER:
420 (I) FILING DATE:
421 (J) PUBLICATION DATE: 1992
422 (K) RELEVANT RESIDUES IN SEQ ID NO:
423 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
424 AGGaATtCCT 10